## What is claimed is:

A method of creating a resin mass comprising the steps of:
 combining a resin, a hardening agent, a hydrocarbon diluent, a silane coupling
agent, a foaming agent, a compressible gas, and a degradable material to form a resin
composition;

placing the resin composition in a subterranean formation; and, allowing the resin to substantially cure and the degradable material to substantially degrade so as to form a permeable, hardened resin mass.

- 2. The method of claim 1 wherein the resin comprises a phenolic resin, a furan/furfuryl alcohol resin, a phenolic/latex resin, a phenol formaldehyde resin, a polyester resin; a hybrid polyester resin; a copolymers polyester resin; a polyurethane resin; a hybrid polyurethane resin; a copolymers polyurethane resin, an acrylate reins, or a combination thereof.
  - 3. The method of claim 1 wherein the resin comprises an epoxy resin.
  - 4. The method of claim 1 wherein the resin comprises a furan resin.
- 5. The method of claim 1 wherein the hardening agent comprises an amine, an aromatic amine, a polyamine, an aliphatic amine, a cyclo-aliphatic amine, an amide, a polyamide, 2-ethyl-4-methyl imidazole, 1,1,3-trichlorotrifluoroacetone, or a combination thereof.
- 6. The method of claim 1 wherein the hardening agent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 7. The method of claim 1 wherein the hydrocarbon diluent comprises one or more aromatic hydrocarbons.
- 8. The method of claim 7 wherein the hydrocarbon diluent comprises toluene, ethylbenzene, n-propylbenzene; isopropylbenzene, n-butylbenzene, isobutylbenzene, cyclohexylbenzene, n-hexylbenzene, xylene, diethylbenzene, 2-chloro-p-xylene diisopropylbenzene, 2-nitro-p-xylene, cymene, durene, isodurene, trimethylbenzene, triethylbenzene, dibutylbenzene, penta-methylbenzene, 1-pentyl-3-ethylbenzene, p-pentyltoluene, 1-hexyl-3-isobutylbenzene, m-hexyltoluene, 1-heptyl-3-isopropylbenzene, p-heptyltoluene, 1-heptyl-3-ethylbenzene, 1-octyl-3-butylbenzene, 1-octyl-3-propylbenzene, p-octyltoluene, 1-nonyl-3-ethylbenzene, p-nonyltoluene, 1-dodecyl-3-ethylbenzene, p-isodecyltoluene, 1-decyl-3-isotridecylbenzene, or combinations thereof.

- 9. The method of claim 1 wherein the hydrocarbon diluent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 10. The method of claim 1 wherein the silane coupling agent comprises N-2-(aminoethyl)-3-aminopropyltrimethoxysilane, 3-glycidoxypropyltrimethoxysilane, n-beta-(aminoethyl)-gamma-aminopropyl trimethoxysilane, or a combination thereof.
- 11. The method of claim 1 wherein the silane coupling agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 12. The method of claim 1 wherein the foaming agent comprises a fluorocarbon surfactant.
- 13. The method of claim 12 wherein the foaming agent comprises a fluorinated alkyl alkoxylate, a fluorinated alkyl ester, a fluorinated aliphatic polymeric ester, or a combination thereof.
- 14. The method of claim 1 wherein the foaming agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 15. The method of claim 1 wherein the compressible gas comprises air, nitrogen, or a combination thereof.
- 16. The method of claim 1 wherein the compressible gas comprises from about 6 to about 12 pounds per gallon of the resin composition by weight of the sum of all the other components in the resin composition.
- 17. The method of claim 1 wherein the degradable material comprises a degradable polymer, a dehydrated salt, a material that degrades when subjected to the subterranean formation temperature, or a combination thereof.
- 18. The method of claim 17 wherein the degradable polymer comprises a polysaccharide; a chitin; a chitosan; a protein; an aliphatic polyester; a poly(lactide); a poly(glycolide); a poly(ε-caprolactone); a poly(hydroxybutyrate); a poly(anhydride); an aliphatic polycarbonate; a poly(orthoester); a poly(amino acid); a poly(ethylene oxide); a polyphosphazene; a polyvinyl alcohol; a poly ethylene oxide; a poly(adipic anhydride), a poly(suberic anhydride), a poly(suberic anhydride), a poly(benzoic anhydride); or a combination thereof.
- 19. The method of claim 17 wherein the dehydrated salt comprises a particulate solid anhydrous borate material.

- 20. The method of claim 1 wherein the degradable material comprises from about 1% to about 60% of the resin composition by weight of the resin therein.
- 21. The method of claim 1 wherein the resin composition further comprises a filler material.
- 22. The method of claim 21 wherein the filler material comprises sand, nut hulls, bauxite, ceramics, polymeric materials, fly ash, bottom ash, or a combination thereof.
- 23. The method of claim 21 wherein the filler comprises from about 1% to about 60% of the resin composition by weight of the resin therein.

24. A method of controlling the migration of particulates in a subterranean formation comprising the steps of:

isolating a zone in a subterranean formation;

providing a resin composition comprising a resin, a hardening agent, a hydrocarbon diluent, a silane coupling agent, a foaming agent, a compressible gas, and a degradable material;

placing the resin composition in at least a portion of the zone; and, allowing the resin to substantially cure and the degradable material to substantially degrade so as to form a permeable, hardened resin mass.

- 25. The method of claim 24 wherein the resin comprises an epoxy resin, a furan resin, a phenolic resin, a furan/furfuryl alcohol resin, a phenolic/latex resin, a phenol formaldehyde resin, a polyester resin; a hybrid polyester resin; a copolymers polyester resin; a polyurethane resin; a hybrid polyurethane resin; a copolymers polyurethane resin, an acrylate reins, or a combination thereof.
- 26. The method of claim 24 wherein the hardening agent comprises an amine, an aromatic amine, a polyamine, an aliphatic amine, a cyclo-aliphatic amine, an amide, a polyamide, 2-ethyl-4-methyl imidazole, 1,1,3-trichlorotrifluoroacetone, or a combination thereof.
- 27. The method of claim 24 wherein the hardening agent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 28. The method of claim 24 wherein the hydrocarbon diluent comprises one or more aromatic hydrocarbons.
- 29. The method of claim 24 wherein the hydrocarbon diluent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 30. The method of claim 24 wherein the silane coupling agent comprises N-2-(aminoethyl)-3-aminopropyltrimethoxysilane, 3-glycidoxypropyltrimethoxysilane, n-beta-(aminoethyl)-gamma-aminopropyl trimethoxysilane, or a combination thereof.
- 31. The method of claim 24 wherein the silane coupling agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 32. The method of claim 24 wherein the foaming agent comprises a fluorinated alkyl alkoxylate, a fluorinated alkyl ester, a fluorinated aliphatic polymeric ester, or a combination thereof.

- 33. The method of claim 24 wherein the foaming agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 34. The method of claim 24 wherein the compressible gas comprises air, nitrogen, or a combination thereof.
- 35. The method of claim 24 wherein the compressible gas comprises from about 6 to about 12 pounds per gallon of the resin composition by weight of the sum of all the other components in the resin composition.
- 36. The method of claim 24 wherein the degradable material comprises a degradable polymer, a dehydrated salt, a material that degrades when subjected to the subterranean formation temperature, or a combination thereof.
- 37. The method of claim 24 wherein the degradable material comprises from about 1% to about 60% of the resin composition by weight of the resin therein.
  - 38. The method of claim 24 further comprising a filler material.
- 39. The method of claim 38 wherein the filler material comprises sand, nut hulls, bauxite, ceramics, polymeric materials, fly ash, bottom ash, or a combination thereof.
- 40. The method of claim 38 wherein the filler comprises from about 1% to about 60% of the resin composition by weight of the resin therein.

41. A method of at least partially maintaining the integrity of a subterranean fracture comprising the steps of:

providing a resin composition comprising resin, a hardening agent, a hydrocarbon diluent, a silane coupling agent, a foaming agent, a compressible gas, and a degradable material; placing the resin composition into at least one fracture in a subterranean formation; and,

allowing the resin to substantially cure and the degradable material to substantially degrade so as to form a permeable, hardened resin mass.

- 42. The method of claim 41 wherein the resin comprises an epoxy resin, a furan resin, a phenolic resin, a furan/furfuryl alcohol resin, a phenolic/latex resin, a phenol formaldehyde resin, a polyester resin; a hybrid polyester resin; a copolymers polyester resin; a polyurethane resin; a hybrid polyurethane resin; a copolymers polyurethane resin, an acrylate reins, or a combination thereof.
- 43. The method of claim 41 wherein the hardening agent comprises an amine, an aromatic amine, a polyamine, an aliphatic amine, a cyclo-aliphatic amine, an amide, a polyamide, 2-ethyl-4-methyl imidazole, 1,1,3-trichlorotrifluoroacetone, or a combination thereof.
- 44. The method of claim 41 wherein the hardening agent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 45. The method of claim 41 wherein the hydrocarbon diluent comprises one or more aromatic hydrocarbons.
- 46. The method of claim 41 wherein the hydrocarbon diluent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 47. The method of claim 41 wherein the silane coupling agent comprises N-2-(aminoethyl)-3-aminopropyltrimethoxysilane, 3-glycidoxypropyltrimethoxysilane, n-beta-(aminoethyl)-gamma-aminopropyl trimethoxysilane, or a combination thereof.
- 48. The method of claim 41 wherein the silane coupling agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 49. The method of claim 41 wherein the foaming agent comprises a fluorinated alkyl alkoxylate, a fluorinated alkyl ester, a fluorinated aliphatic polymeric ester, or a combination thereof.

- 50. The method of claim 41 wherein the foaming agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 51. The method of claim 41 wherein the compressible gas comprises air, nitrogen, or a combination thereof.
- 52. The method of claim 41 wherein the compressible gas comprises from about 6 to about 12 pounds per gallon of the resin composition by weight of the sum of all the other components in the resin composition.
- 53. The method of claim 41 wherein the degradable material comprises a degradable polymer, a dehydrated salt, a material that degrades when subjected to the subterranean formation temperature, or a combination thereof.
- 54. The method of claim 41 wherein the degradable material comprises from about 1% to about 60% of the resin composition by weight of the resin therein.
  - 55. The method of claim 41 further comprising a filler material.
- 56. The method of claim 55 wherein the filler material comprises sand, nut hulls, bauxite, ceramics, polymeric materials, fly ash, bottom ash, or a combination thereof.
- 57. The method of claim 55 wherein the filler comprises from about 1% to about 60% of the resin composition by weight of the resin therein.

- 58. A resin composition useful in subterranean applications comprising a resin, a hardening agent, a hydrocarbon diluent, a silane coupling agent, a foaming agent, a compressible gas, and a degradable material.
- 59. The resin composition of claim 58 wherein the resin comprises a phenolic resin, a furan/furfuryl alcohol resin, a phenolic/latex resin, a phenol formaldehyde resin, a polyester resin; a hybrid polyester resin; a copolymers polyester resin; a polyurethane resin; a hybrid polyurethane resin; a copolymers polyurethane resin, an acrylate reins, or a combination thereof.
  - 60. The resin composition of claim 58 wherein the resin comprises an epoxy resin.
  - 61. The resin composition of claim 58 wherein the resin comprises a furan resin.
- 62. The resin composition of claim 58 wherein the hardening agent comprises an amine, an aromatic amine, a polyamine, an aliphatic amine, a cyclo-aliphatic amine, an amide, a polyamide, 2-ethyl-4-methyl imidazole, 1,1,3-trichlorotrifluoroacetone, or a combination thereof.
- 63. The resin composition of claim 58 wherein the hardening agent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 64. The resin composition of claim 58 wherein the hydrocarbon diluent comprises one or more aromatic hydrocarbons.
- 65. The resin composition of claim 64 wherein the hydrocarbon diluent comprises toluene, ethylbenzene, n-propylbenzene; isopropylbenzene, n-butylbenzene, isobutylbenzene, cyclohexylbenzene, n-hexylbenzene, xylene, diethylbenzene, 2-chloro-p-xylene diisopropylbenzene, 2-nitro-p-xylene, cymene, durene, isodurene, trimethylbenzene, triethylbenzene, dibutylbenzene, penta-methylbenzene, 1-pentyl-3-ethylbenzene, p-pentyltoluene, 1-hexyl-3-isobutylbenzene, m-hexyltoluene, 1-heptyl-3-isopropylbenzene, p-heptyltoluene, 1-heptyl-3-ethylbenzene, 1-octyl-3-butylbenzene, 1-octyl-3-propylbenzene, p-octyltoluene, 1-nonyl-3-ethylbenzene, p-nonyltoluene, 1-dodecyl-3-ethylbenzene, p-isodecyltoluene, 1-decyl-3-isotridecylbenzene, or combinations thereof.
- 66. The resin composition of claim 58 wherein the hydrocarbon diluent comprises from about 40% to about 60% of the resin composition by weight of the resin therein.
- 67. The resin composition of claim 58 wherein the silane coupling agent comprises N-2-(aminoethyl)-3-aminopropyltrimethoxysilane, 3-glycidoxypropyltrimethoxysilane, n-beta-(aminoethyl)-gamma-aminopropyl trimethoxysilane, or a combination thereof.

- 68. The resin composition of claim 58 wherein the silane coupling agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 69. The resin composition of claim 58 wherein the foaming agent comprises a fluorocarbon surfactant.
- 70. The resin composition of claim 69 wherein the foaming agent comprises a fluorinated alkyl alkoxylate, a fluorinated alkyl ester, a fluorinated aliphatic polymeric ester, or a combination thereof.
- 71. The resin composition of claim 58 wherein the foaming agent comprises from about 0.01% to about 5% of the resin composition by weight of the resin therein.
- 72. The resin composition of claim 58 wherein the compressible gas comprises air, nitrogen, or a combination thereof.
- 73. The resin composition of claim 58 wherein the compressible gas comprises from about 6 to about 12 pounds per gallon of the resin composition by weight of the sum of all the other components in the resin composition.
- 74. The resin composition of claim 58 wherein the degradable material comprises a degradable polymer, a dehydrated salt, a material that degrades when subjected to the subterranean formation temperature, or a combination thereof.
- 75. The resin composition of claim 74 wherein the degradable polymer comprises a polysaccharide; a chitin; a chitosan; a protein; an aliphatic polyester; a poly(lactide); a poly(glycolide); a poly(ε-caprolactone); a poly(hydroxybutyrate); a poly(anhydride); an aliphatic polycarbonate; a poly(orthoester); a poly(amino acid); a poly(ethylene oxide); a polyphosphazene; a polyvinyl alcohol; a poly ethylene oxide; a poly(adipic anhydride), a poly(suberic anhydride), a poly(suberic anhydride), a poly(benzoic anhydride); or a combination thereof.
- 76. The resin composition of claim 74 wherein the dehydrated salt comprises a particulate solid anhydrous borate material.
- 77. The resin composition of claim 58 wherein the degradable material comprises from about 1% to about 60% of the resin composition by weight of the resin therein.
  - 78. The resin composition of claim 58 further comprising a filler material.
- 79. The resin composition of claim 78 wherein the filler material comprises sand, nut hulls, bauxite, ceramics, polymeric materials, fly ash, bottom ash, or a combination thereof.

80. The resin composition of claim 78 wherein the filler comprises from about 1% to about 60% of the resin composition by weight of the resin therein.